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47	I-6	P&I DIAGRAM 4
48	I-7	P&I DIAGRAM 5
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57	P-5	PIPELINE PLAN AND PROFILE FROM ST. 2+800 TO ST. 3+500
58	P-6	PIPELINE PLAN AND PROFILE FROM ST. 3+500 TO ST. 4+200
59	P-7	PIPELINE PLAN AND PROFILE FROM ST. 4+200 TO ST. 4+900
60	P-8	PIPELINE PLAN AND PROFILE FROM ST. 4+900 TO ST. 5+600
61	P-9	PIPELINE PLAN AND PROFILE FROM ST. 5+600 TO ST. 6+300
62	P-10	PIPELINE PLAN AND PROFILE FROM ST. 6+300 TO ST. 7+000
63	P-11	PIPELINE PLAN AND PROFILE FROM ST. 7+000 TO ST. 7+700
64	P-12	PIPELINE PLAN AND PROFILE FROM ST. 7+700 TO ST. 8+400
65	P-13	PIPELINE PLAN AND PROFILE FROM ST. 8+400 TO ST. 9+100
66	P-14	PIPELINE PLAN AND PROFILE FROM ST. 9+100 TO ST. 9+800
67	P-15	PIPELINE PLAN AND PROFILE FROM ST. 9+800 TO ST. 10+500
68	P-16	PIPELINE PLAN AND PROFILE FROM ST. 10+500 TO ST. 11+200
69	P-17	PIPELINE PLAN AND PROFILE FROM ST. 11+200 TO ST. 11+900
70	P-18	PIPELINE PLAN AND PROFILE FROM ST. 11+900 TO ST. 12+600
71	P-19	PIPELINE PLAN AND PROFILE FROM ST. 12+600 TO ST. 13+300
72	P-20	PIPELINE PLAN AND PROFILE FROM ST. 13+300 TO ST. 14+000
73	P-21	PIPELINE PLAN AND PROFILE FROM ST. 14+000 TO ST. 14+700
74	P-22	PIPELINE PLAN AND PROFILE FROM ST. 14+700 TO ST. 15+400
75	P-23	PIPELINE PLAN AND PROFILE FROM ST. 15+400 TO ST. 16+100
76	P-24	PIPELINE PLAN AND PROFILE FROM ST. 16+100 TO ST. 16+800
77	P-25	PIPELINE PLAN AND PROFILE FROM ST. 16+800 TO ST. 17+500
78	P-26	PIPELINE PLAN AND PROFILE FROM ST. 17+500 TO ST. 18+200
79	P-27	PIPELINE PLAN AND PROFILE FROM ST. 18+200 TO ST. 18+900
80	P-28	PIPELINE PLAN AND PROFILE FROM ST. 18+900 TO ST. 19+600
81	P-29	PIPELINE PLAN AND PROFILE FROM ST. 19+600 TO ST. 20+300
82	P-30	PIPELINE PLAN AND PROFILE FROM ST. 20+300 TO ST. 21+000
83	P-31	PIPELINE PLAN AND PROFILE FROM ST. 21+000 TO ST. 21+700
84	P-32	PIPELINE PLAN AND PROFILE FROM ST. 21+700 TO ST. 22+400
85	P-33	PIPELINE PLAN AND PROFILE FROM ST. 22+400 TO ST. 23+100
86	P-34	PIPELINE PLAN AND PROFILE FROM ST. 23+100 TO ST. 23+800

SERIAL No.	DWG. No.	TITLE
87	P-35	PIPELINE PLAN AND PROFILE FROM ST. 23+800 TO ST. 24+500
88	P-36	PIPELINE PLAN AND PROFILE FROM ST. 24+500 TO ST. 25+200
89	P-37	PIPELINE PLAN AND PROFILE FROM ST. 25+200 TO ST. 25+900
90	P-38	PIPELINE PLAN AND PROFILE FROM ST. 25+900 TO ST. 26+600
91	P-39	PIPELINE PLAN AND PROFILE FROM ST. 26+600 TO ST. 27+300
92	P-40	PIPELINE PLAN AND PROFILE FROM ST. 27+300 TO ST. 28+000
93	P-41	PIPELINE PLAN AND PROFILE FROM ST. 28+000 TO ST. 28+700
94	P-42	PIPELINE PLAN AND PROFILE FROM ST. 28+700 TO ST. 29+400
95	P-43	PIPELINE PLAN AND PROFILE FROM ST. 29+400 TO ST. 30+100
96	P-44	PIPELINE PLAN AND PROFILE FROM ST. 30+100 TO ST. 30+800
97	P-45	PIPELINE PLAN AND PROFILE FROM ST. 30+800 TO ST. 31+500
98	P-46	PIPELINE PLAN AND PROFILE FROM ST. 31+500 TO ST. 32+200
99	P-47	PIPELINE PLAN AND PROFILE FROM ST. 32+200 TO ST. 32+900
100	P-48	PIPELINE PLAN AND PROFILE FROM ST. 32+900 TO ST. 33+600
101	P-49	PIPELINE PLAN AND PROFILE FROM ST. 33+600 TO ST. 34+300
102	P-50	PIPELINE PLAN AND PROFILE FROM ST. 34+300 TO ST. 35+000
103	P-51	PIPELINE PLAN AND PROFILE FROM ST. 35+000 TO ST. 35+700
104	P-52	PIPELINE PLAN AND PROFILE FROM ST. 35+700 TO ST. 36+400
105	P-53	PIPELINE PLAN AND PROFILE FROM ST. 36+400 TO ST. 37+100
106	P-54	PIPELINE PLAN AND PROFILE FROM ST. 37+100 TO ST. 37+800
107	P-55	PIPELINE PLAN AND PROFILE FROM ST. 37+800 TO ST. 38+500
108	P-56	PIPELINE PLAN AND PROFILE FROM ST. 38+500 TO ST. 39+200
109	P-57	PIPELINE PLAN AND PROFILE FROM ST. 39+200 TO ST. 39+900
110	P-58	PIPELINE PLAN AND PROFILE FROM ST. 39+900 TO ST. 40+600
111	P-59	PIPELINE PLAN AND PROFILE FROM ST. 40+600 TO ST. 41+300
112	P-60	PIPELINE PLAN AND PROFILE FROM ST. 41+300 TO ST. 42+000
113	P-61	PIPELINE PLAN AND PROFILE FROM ST. 42+000 TO ST. 42+700
114	P-62	PIPELINE PLAN AND PROFILE FROM ST. 42+700 TO ST. 43+400
115	P-63	PIPELINE PLAN AND PROFILE FROM ST. 43+400 TO ST. 44+100
116	P-64	PIPELINE PLAN AND PROFILE FROM ST. 44+100 TO ST. 44+800
117	P-65	PIPELINE PLAN AND PROFILE FROM ST. 44+800 TO ST. 45+500
118	P-66	PIPELINE PLAN AND PROFILE FROM ST. 45+500 TO ST. 46+200
119	P-67	PIPELINE PLAN AND PROFILE FROM ST. 46+200 TO ST. 46+900
120	P-68	PIPELINE PLAN AND PROFILE FROM ST. 46+900 TO ST. 47+600
121	P-69	PIPELINE PLAN AND PROFILE FROM ST. 47+600 TO ST. 47+800
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REDUCED SIZE DRAWINGS

REV.	DATE	DRAWN	CHKD	REMARKS

DESIGNED:	CHECKED:	SCALE:
N.A.	M.M.	NTS
DRAWN:	APPROVED:	DATE:
N.K.	D.D.	NOV. 2005

CDM International Inc.

NORTHERN GOVERNORATES WATER TRANSMISSION
Eastern Primary Transmission System

INDEX OF DRAWINGS

PROJECT NO. : 3029-42324

DRAWING NO. : **G-1**

SURVEY BENCH MARK POINTS:

PO.NO	Corrected E	Corrected N	ELEVATION
H19	235348.880	208645.271	648.627
I2	235820.880	208484.056	662.322
H20	236279.102	208387.099	660.700
IR279	237190.972	208861.848	
IR285	238359.615	208046.217	
H21	236643.869	208312.938	661.120
H22	237115.607	208117.374	647.553
H23	237531.071	207972.942	641.506
H24	238238.762	207697.798	633.751
H25	238749.563	207500.699	625.257
H26	239166.105	207343.739	632.605
H27	239490.914	207199.353	637.267
H28	239966.724	207034.869	621.064
H29	240440.073	206837.067	629.147
H30	240932.811	206656.850	635.473
H31	241219.363	206548.896	636.774
H32	241694.730	206336.693	630.190
H33	242182.285	206167.408	640.725
IR409	242874.294	205913.386	
IR406	242829.781	206803.390	
H34	243329.422	205726.016	646.174
H35	243652.855	205600.408	648.196
H36	244458.731	205303.307	669.099
H37	245038.236	205101.963	665.174
H38	245577.546	204871.973	639.433
H39	245911.046	204742.184	648.998
H40	246189.123	204622.650	647.488
H41	246957.485	204341.235	641.594
H42	247569.545	204106.889	647.506
H43	248043.454	203921.810	655.122
H44	248740.384	203653.920	647.563
H45	249049.758	203520.454	654.494
H46	249669.912	203295.722	651.946
H47	250092.226	203131.142	654.186
H48	250515.893	202967.815	653.822
H49	251316.542	202642.272	663.456
H50	251687.465	202491.362	682.376
H51	252231.179	202295.490	697.162
H52	252494.902	201925.946	715.770
H53	252675.784	201501.578	755.736
H54	253032.000	200756.872	792.576
H55	253133.366	200632.837	794.010
H56	253440.568	200487.644	788.139
MA109	254013.309	199964.145	
MA110	254976.012	199996.008	
H57	254030.756	200267.662	772.053
H58	254677.076	200054.445	769.385
H59	255077.590	199886.679	776.497
H60	255668.782	199741.656	767.947
H61	255994.132	199636.315	770.436
H62	256700.664	199401.140	759.641
H63	257303.904	199213.377	736.781
H64	258100.414	198975.850	728.143
H65	259059.960	198643.637	727.387
H66	259757.706	198437.624	718.091
H67	260114.219	198318.246	715.218
H68	261010.387	198044.103	701.411
H69	261911.349	197755.082	697.881
H70	262311.316	197560.920	695.262
H71	263053.174	197199.695	689.503
H72	263632.976	196919.447	680.623
H73	264277.433	196579.024	681.528
H74	264463.868	197094.803	677.429
H75	264762.941	197414.987	674.392
H76	265114.392	196687.558	675.071
H77	265371.980	196190.342	679.814
H78	265746.973	195827.434	684.458
H79	266587.964	195404.192	675.611
MA197	266784.626	196144.542	
MA200	267060.466	195182.182	674.359
H80	267597.984	194916.580	673.463
H81	268146.759	194660.498	669.683
H82	268889.106	194300.441	667.574
H83	269590.984	193956.867	665.990
H84	270150.138	193686.968	668.143
H85	270772.498	193373.204	668.550
H86	271375.957	193078.698	665.403
H87	271961.681	192794.519	661.633
H88	272479.455	192537.213	659.372
H89	273016.866	192277.292	654.964
H90	273524.784	192012.158	656.184
FA447	272448.473	191381.311	
FA440	272813.000	191298.125	

SURVEY LEGEND:

EXISTING WATER PIPELINE	—600—600—
EXISTING WATER VALVE	V
EXISTING ELECTRIC MANHOLE	EM
EXISTING FIRE HYDRANT	FH
EXISTING HIGH VOLTAGE PYLON	HT
INVERT CULVERT ELEVATION	
TOP CULVERT ELEVATION	
EXISTING RAIN MANHOLE	
EXISTING TRAFFIC SIGN	
EXISTING SIGN BOARD	
EXISTING SEPTIC–TANK	
EXISTING TELEPHONE MANHOLE	TM
TRAVERSE POINT (BENCH MARK)	H 61
EXISTING HANGER	
EXISTING CONCRETE–SLAB	
EXISTING TIN ROOF BUILDING	
EXISTING TELEPHONE BOX	TB
EXISTING ELECTRIC BOX	EB
EXISTING STREET LIGHT	
EXISTING CULVERT	
EXISTING ELECTRIC POLE	
EXISTING TELEPHONE POLE	
EXISTING WALL	
EXISTING MANHOLE	
EXISTING TREE	
EXISTING FENCE	——×——
EXISTING WATER MANHOLE	WM
SURVEY REFERENCE POINT	H 61

LEGEND:

COMBINATION VALVE VAULT	
WASH OUT	
PROPOSED WATER PIPELINE	
NODE REFERENCE NUMBER	②
HORIZONTAL BEND	
GATE VALVE	
BUTTERFLY VALVE	
WATER METER	
CHECK VALVE	
DISMANTLING JOINT	
FLANGED SPIGOT	
FLANGED SOCKET ADAPTER	
DUCTILE IRON PIPE	
FLANGED REDUCER	
SOCKET REDUCER	
PUMP	
PRESSURE GAUGE WITH COCK	
PRESSURE RELIEF VALVE	
POWER CABLE	
REINFORCED CONCRETE ENCASEMENT	
BOUNDARY LINE	
RIGHT OF WAY	R.O.W R.O.W
SOCKET TEE	
FLANGED TEE	
FLANGED PIPE	
BLIND FLANGE	
END PLUG	
SOCKET FLANGE TEE	

ABBREVIATIONS

ASPHALT	ASPH
BENCH MARK	BM
CENTER LINE	℄
CENTIMETER	cm
CONCRETE ENCASEMENT	CE
DUCTILE IRON PIPE	DIP
DIRT ROAD	DR
DRAWING	DWG
INVERT LEVEL	IL
GROUND LEVEL	GL
KILOGRAM	Kg
LENGTH	L
LINEAR METERS	LM
METER	M
MAXIMUM	MAX
MINIMUM	MIN
MILLIMETER	mm
NUMBER	No
NATURAL GROUND	NG
OUTSIDE DIAMETER	OD
PER THOUSAND	‰
REINFORCED CONCRETE ENCASEMENT	RCE
RIGHT OF WAY	ROW
SLOPE	S
SQUARE METER	m^2
CUBIC METER	m^3
TYPICAL	TYP
WASH OUT	WO
NOMINAL PRESSURE	PN
NOMINAL DIAMETER	ND
WATER AUTHORITY OF JORDAN	WAJ
RETAINING WALL	RT
PLANT WATER	PW
FIRE EXTINGUISHER	FE
EXHAUST FAN	EX.F
LITER	LIT
LITER PER SECOND	L/S
RESERVOIR	RES
REINFORCEMENT CONCRETE	RC
FINISHED FLOOR LEVEL	FFL
AIR RELEASE VALVE	ARV
WASTEWATER	WW
PRESSURE GAUGE	PG
PUMP STATION	PS
BLACK STEEL	BS
MANHOLE	MH
GALVANIZED	Galv
KILOWATT	kw
AIR CONDITION	A/C
GALVANIZED STEEL	GVS
STAINLESS STEEL	SS
EACH FACE	EF
RAIN WATER DRAIN	RWD
MINISTRY OF PUBLIC WORKS AND HOUSING	MPWH

GENERAL NOTES

1. ALL PIPELINES IN TRENCHES OF 100mm–1000mm DIAMETER SHALL BE CEMENT LINED AND BITUMINOUS COATED DIP CLASS K9 ISO 2531 AND SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. ALL PIPE DIAMETERS ARE INDICATED IN MILLIMETERS.
3. ALL PIPE LAYING, TYPE OF BEDDING AND ALL OTHER DETAILS SHALL BE AS SPECIFIED AND/OR AS SHOWN ON DRAWINGS. THE ENGINEER'S REPRESENTATIVE SHALL APPROVE ALL SUCH TYPES OF BEDDING IN ACCORDANCE WITH SOIL CONDITIONS AT THE LOCATION WHERE THE PIPE IS LAID.
4. GROUND ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT THE EXISTING CONDITIONS AT THE TIME THE SURVEY WAS PERFORMED. LEVELS ARE SUBJECT TO CHANGES PENDING FINAL GRADING. ACCORDINGLY, THE CONTRACTOR SHALL MODIFY CHAMBERS GROUND ELEVATIONS TO MATCH THE FINAL SURFACES AT THE TIME OF EXECUTION OF THE WORKS, OR AS DIRECTED AND APPROVED BY THE ENGINEER'S REPRESENTATIVE.
5. IN GENERAL, DISTANCES AND DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS. WORK SHALL BE PERFORMED FROM DIMENSIONED PROFILES, DETAILED DRAWINGS AND SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER'S REPRESENTATIVE. THE DIMENSIONS ON DRAWINGS SHALL OVERRULE MEASUREMENTS MADE FROM THE DRAWINGS IN CASE OF DISCREPANCY.
7. THE WASH OUT DIRECTIONS ARE SHOWN SCHEMATICALLY ON THE PLANS, PIPELINE WASH OUTS SHOULD BE DIRECTED ALONG THE NATURAL SLOPE.
8. ALONG THE ROUTE OF THE PIPELINE WHEREVER HORIZONTAL OR VERTICAL CHANGES IN ALIGNMENT OCCUR, IT IS PREFERRED THAT THE CHANGE IN DIRECTION BE ACCOMPLISHED, CONDITIONS ALLOWING, BY DEFLECTION OF PIPE JOINTS IN LIEU OF USING FITTINGS. HOWEVER, THE DEFLECTION AT EACH PIPE JOINT SHALL BE LIMITED TO 75 PERCENT OF THE MAXIMUM ALLOWABLE JOINT DEFLECTION AS SPECIFIED BY THE MANUFACTURER. FITTINGS SHOWN ON THE DRAWINGS SHALL BE INSTALLED WITH APPROPRIATE THRUST ATTENUATION, IRRESPECTIVE OF THE REQUIREMENTS OF THIS NOTE.
9. SEVERAL WATER LINES EXIST ALONG THE PIPELINE ALIGNMENT AND CROSSING THE PIPELINE, WHERE NECESSARY THE CONTRACTOR SHALL DO TEST PITS TO LOCATE THE EXISTING PIPELINES BEFORE CONSTRUCTION. TWO OF THESE PIPELINES ARE 400mm AND 600mm EXISTING PIPELINES THAT CONVEY WATER FROM ZATARY TO MAFRAQ AREA AND FROM ZATARY TO HOFA RESPECTIVELY, THE EXACT LOCATION OF SOME OF THE VALVE VAULTS OF THESE TWO LINES ARE SHOWN ON THE DRAWINGS. THE EXISTING 400mm AND 600mm PIPELINES SHOWN ON THE DRAWINGS IS INDICATIVE AND IS NOT THE EXACT LOCATION. THE CONTRACTOR SHALL EXECUTE TEST PITS ALONG THE PIPELINE ROUTE AND WHERE NECESSARY TO DETERMINE THE LOCATION AND ELEVATION OF THE EXISTING PIPE IN ORDER TO AVOID DAMAGE TO THE EXISTING PIPELINES DURING CONSTRUCTION. THE COST OF THE TEST PITS SHALL BE CONSIDERED INCLUDED IN THE PIPELINE RATES.
10. CONTRACTOR SHALL PROVIDE PIPELINE MARKER SIGNS AT 500 M INTERVALS PER DETAILS DRAWING ON PD 2. COSTS SHALL BE INCLUDED IN UNIT PRICE OF PIPELINE ITEMS.
11. THE CONTRACTOR SHALL NOT REMOVE ANY TREE BEFORE GETTING APPROPRIATE PERMITS FROM THE MINISTRY OF AGRICULTURE AND ANY OTHER AGENCIES. THE COST OF THIS WORK IS PART OF THE PREPARATION.

SURVEY BENCH MARK POINTS:

PO.NO	Corrected E	Corrected N	ELEVATION
Z1	273456.045	192079.742	655.703
Z2	273467.820	192115.642	655.825
Z3	273465.838	192144.116	655.442
Z4	273506.314	192090.751	656.170
IR273	230993.351	208647.345	
IR245	230951.854	211044.209	
H6	230210.924	210859.124	770.458
H7	230713.708	210581.353	779.777
H8	231179.224	210300.058	744.677
H9	231666.505	210016.562	745.583
H10	231807.700	209919.179	737.538
H11	232158.262	209733.415	691.946
H12	232596.964	209479.495	702.561
H13	232902.035	209412.713	670.559
H14	233258.057	209354.307	656.790
H15	233618.611	209141.233	672.185
H16	233938.305	209003.658	682.683
H17	234058.198	208926.000	680.024
I1	234206.782	208889.540	671.003
H18	234661.259	208758.118	653.235
H19	235348.880	208645.271	648.627

REDUCED SIZE DRAWINGS

REV.	DATE	DRAWN	CHKD	REMARKS

DESIGNED: N.A. | CHECKED: M.M. | SCALE: NTS
DRAWN: N.K. | APPROVED: D.D. | DATE: NOV. 2005

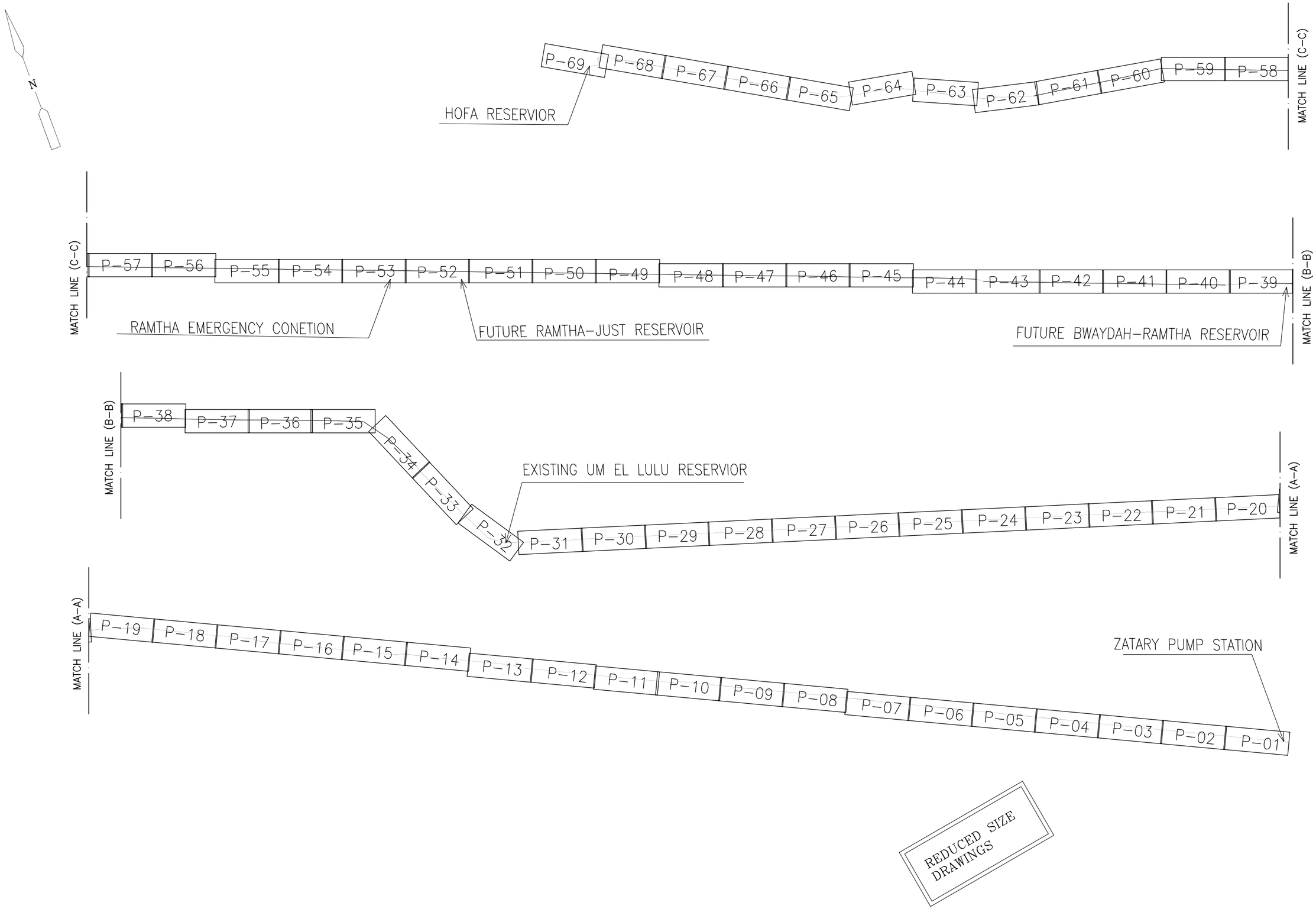
CDM International Inc.

NORTHERN GOVERNORATES WATER TRANSMISSION
Eastern Primary Transmission System

GENERAL NOTES LEGEND AND ABBREVIATION

PROJECT NO. : 3029-42324

DRAWING NO. : G-2



REV.	DATE	DRAWN	CHKD	REMARKS

DESIGNED:	CHECKED:	SCALE:
N.A.	M.M.	NTS
DRAWN:	APPROVED:	DATE:
N.K.	D.D.	NOV. 2005

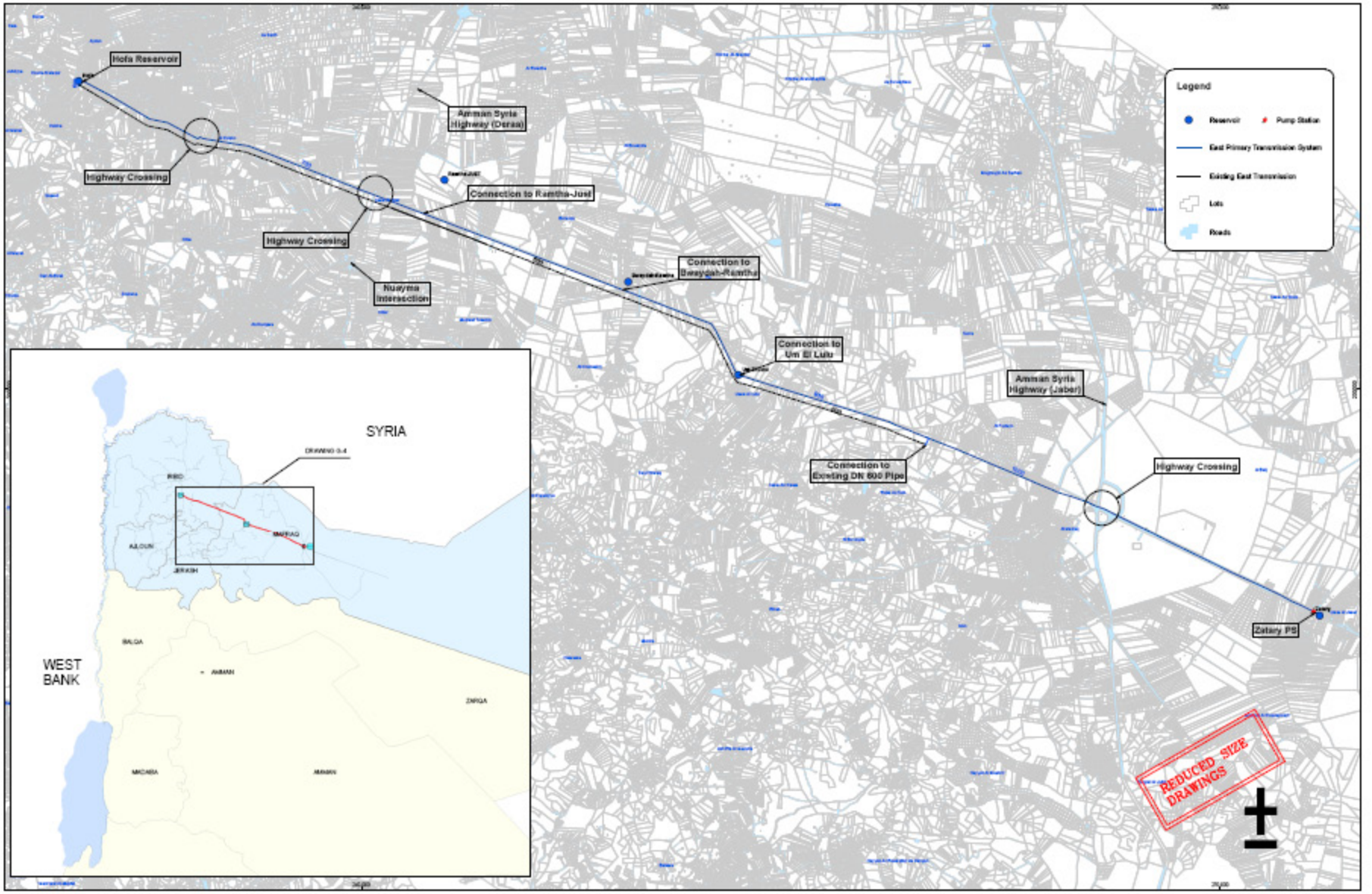
CDM International Inc.

NORTHERN GOVERNORATES WATER TRANSMISSION
Eastern Primary Transmission System

KEY PLAN

PROJECT NO. : 3029-42324

DRAWING NO. : **G-3**



REV.	DATE	DRAWN	CHKD	REMARKS

DESIGNED:	CHECKED:	SCALE:
A.H.	M.M.	NTS
DRAWN:	APPROVED:	DATE:
A.H.	D.D.	NOV. 05

USAID

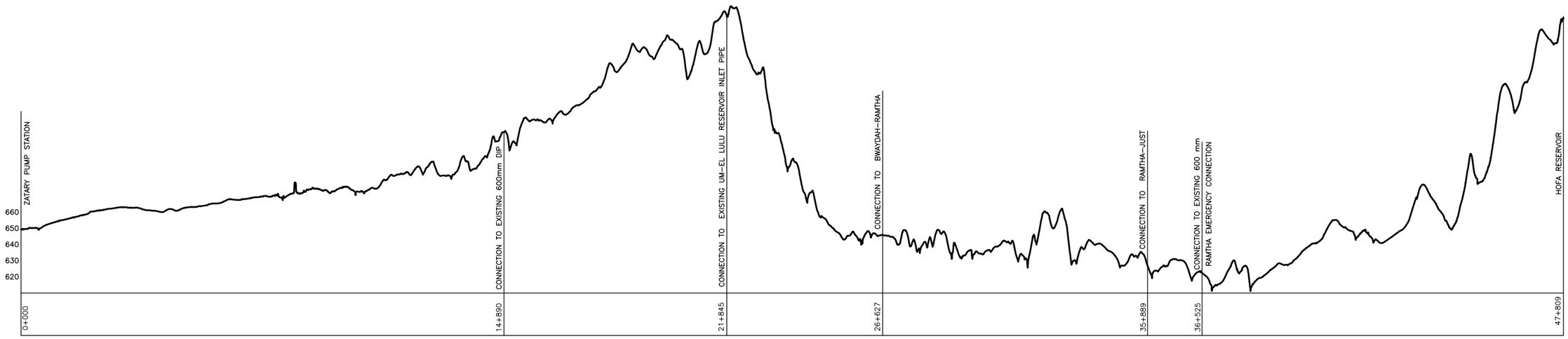
CDM International Inc.

NORTHERN GOVERNORATES WATER TRANSMISSION
Eastern Primary Transmission System

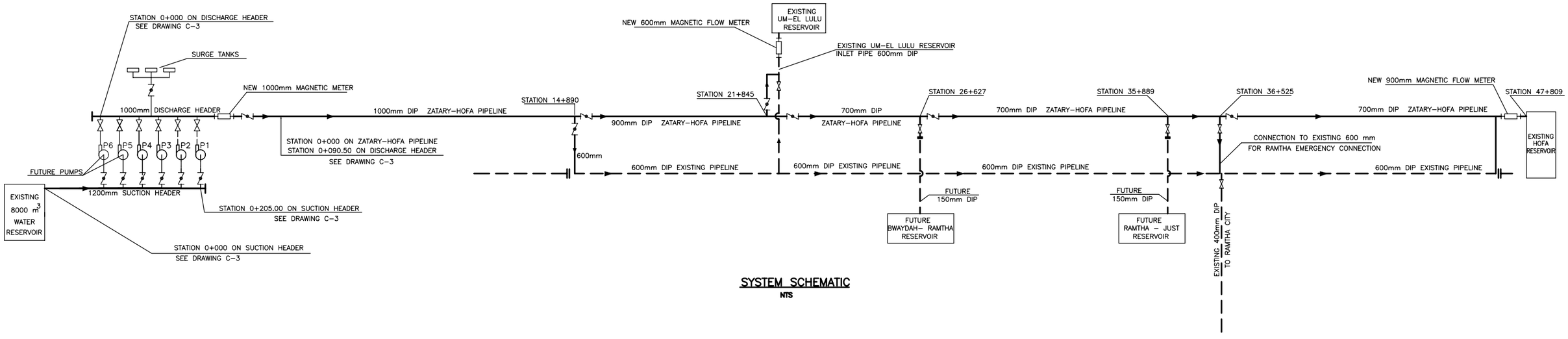
EAST PRIMARY TRANSMISSION SYSTEM LAYOUT

PROJECT NO.: 3029-42324

DRAWING No.: G-4



PIPELINE PROFILE
NTS



SYSTEM SCHEMATIC
NTS

REDUCED SIZE DRAWINGS

REV.	DATE	DRAWN	CHKD	REMARKS

DESIGNED:	CHECKED:	SCALE:
L.H.	M.M.	NTS
DRAWN:	APPROVED:	DATE:
N.K.	D.D.	NOV. 2005

CDM International Inc.

NORTHERN GOVERNORATES WATER TRANSMISSION
Eastern Primary Transmission System

PIPELINE PROFILE & SYSTEM SCHEMATIC

PROJECT NO. : 3029-42324

DRAWING NO. : **G-5**